AMENDMENTS TO THE CLAIMS:

This list of claims replaces all prior versions and lists of claims.

1.-17. (canceled)

18. (previously presented) A filler-containing polymer dispersion, comprising water, particles of at least one filler selected from the group consisting of organic fillers, inorganic fillers and mixtures thereof, at least one water-soluble organic polymer with a molecular weight of more than 600 and an HLB value of at least 15, and particles of at least one synthetic organic polymer, polymerized in the presence of at least one type of the filler particles, wherein the dispersion has a ratio of filler particle size to synthetic organic polymer particle size of 1.1:1 to 20:1.

19. (previously presented) The filler-containing polymer dispersion as claimed in claim 18 wherein the synthetic organic polymer particles have a diameter (d50) of 0.03 to 0.5 μm.

20. (previously presented) The filler-containing polymer dispersion as claimed in claim 18, wherein the inorganic filler comprises a member selected from the group consisting of chalk ($CaCO_3$), gypsum ($CaSO_4$) as anhydrite, hemihydrate or dihydrate, silica flour, silica gel, titanium dioxide, talcum, a layer silicate, barium sulfate, barite and mixtures thereof and wherein the organic filler

comprises a member selected from the group consisting of polyvinyl acetate, vinyl acetate copolymers, polystyrene, polyethylene, polypropylene, waxes, polybutylene, polybutadiene, copolymers of butadiene and styrene, polyacrylonitrile, resins, polyacrylate esters, polymethacrylate esters polymers containing silyl groups and mixtures thereof.

21. (previously presented) The filler-containing polymer dispersion as claimed in claim 18, wherein the at least one water-soluble polymer comprises a member selected from the group consisting of polyvinyl alcohol, cellulose ethers, carboxymethyl celluloses, hydroxyethyl celluloses, casein, potassium alginate, sodium alginate, polyurethanes and mixtures thereof.

22. (previously presented) The filler-containing polymer dispersion as claimed in claim 18, wherein the dispersion comprises at least one ionic surfactant with an HLB value of 1 to 10.

23. (previously presented) The filler-containing polymer dispersion as claimed in claim 18 wherein the dispersion comprises at least one nonionic surfactant with an HLB value of 13 to 20.

24. (previously presented) The filler-containing polymer dispersion as claimed in claim 18 comprising:

a) 10% to 70% by weight of a water-insoluble organic polymer;

b) 5% to 55% by weight of filler particles;

c) 0.02% to 1.0% by weight of a nonionic surfactant with an HLB value of 13 to 20;
d) 0.01% to 1.0% by weight of an ionic surfactant with an HLB value of 1 to 10;
e) 0.05% to 10% by weight of the water-soluble organic polymer with a molecular weight of more than 600 and an HLB value of more than 15;
f) 24.92% to 84.89% by weight of water and
g) 0 to 30% by weight of additives.

25. (previously presented) The process for the production of a filler-containing polymer dispersion, which comprises: emulsion polymerizing at least one radical-polymerizable monomer in an aqueous phase using a polymerization initiator, the aqueous phase containing filler particles of at least one dispersed filler with a particle size (d50) of 0.01 to 0.5µm and at least one water-soluble organic polymer with a molecular weight of more than 600 and an HLB value of more than 15 whereby a dispersion comprising filler particles and polymer particles is formed.

26. (previously presented) The process as claimed in claim 25, wherein the aqueous phase contains an ionic surfactant.

27. (previously presented) The process as claimed in claim 25, wherein the aqueous phase contains a nonionic surfactant.

28. (previously presented) The process as claimed in claim 25, wherein the polymerization initiator is water-soluble.

29. (previously presented) The process as claimed in claim 25, wherein the process is carried out in at least two successive stages comprising:

a) a first stage comprising preparing a dispersion containing:

1) at least one ionic surfactant with an HLB value of 1 to 10 or a nonionic surfactant with an HLB value of 13 to 20 or a mixture of two or more thereof,

2) at least one inorganic filler with a particle size (d50) of 0.01 to 0.5 μm,

3) at least one polymerization initiator and

4) at least one water-soluble organic polymer with a molecular weight of more than 600 and an HLB value of more than 15 and then heating the dispersion to a temperature of 70 to 90°C; and

b) a second stage comprising adding and polymerizing at least one radical-polymerizable monomer in the dispersion prepared in the first stage.

30. (previously presented) The process as claimed in claim 29 wherein the inorganic filler particles are added before the polymerization initiator.

31. (previously presented) The process as claimed in claim 25, wherein the filler particles dispersed in the aqueous phase are pre-emulsified with one or more monomers.

32. (previously presented) The process as claimed in claim 31, wherein the polymerization initiators are added in portions to the dispersion.

33. (previously presented) The filler-containing polymer dispersion, produced by the process claimed in claim 25.

34. (previously presented) An adhesive or surface coating composition, comprising at least one filler-containing polymer dispersion of claim 18.

35. (previously presented) The adhesive or surface coating composition produced by the process of claim 25.

36. (previously presented) The filler-containing polymer of claim 19, wherein the inorganic filler comprises a member selected from the group consisting of chalk ($CaCO_3$), gypsum ($CaSO_4$) as anhydrite, hemihydrate or dihydrate, silica flour, silica gel, titanium dioxide, talcum, a layer silicate, barium sulfate, barite and mixtures thereof and wherein the organic filler comprises a member selected from the group consisting of polyvinyl acetate vinyl acetate copolymers, polystyrene, polyethylene, polypropylene, waxes, polybutylene, polybutadiene, copolymers of butadiene and styrene, polyacrylonitrile, resins, polyacrylate esters, polymethacrylate esters polymers containing silyl groups and mixtures thereof.

37. (previously presented) The filler-containing polymer dispersion as claimed in claim 19, wherein the dispersion

comprises at least one ionic surfactant with an HLB value of 1 to 10.

38. (previously presented) The filler-containing polymer dispersion as claimed in claim 18 comprising:

a) 10% to 70% by weight of a water insoluble organic polymer;
b) 5% to 55% by weight of filler particles;
c) 0.05% to 0.5% by weight of a nonionic surfactant with an HLB value of 13 to 20;
d) 0.02% to 0.5% by weight of an ionic surfactant with an HLB value of 1 to 10;
e) 0.05% to 10% by weight of a water-soluble organic polymer with a molecular weight of more than 600 and an HBL value of ore than 15;
f) 24.88% to 84.88% by weight of water; and
g) 0% to 30% by weight of additives.

39. (previously presented) The filler-containing polymer dispersion of Claim 18 containing at least one nonionic surfactant with an HLB of 13 to 20 and an ionic surfactant with an HLB of 1 to 10 wherein a ratio by weight of nonionic surfactant to ionic surfactant is from about 5:1 to about 1:5.